

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A pharmaceutical composition for administration to a mucosal surface comprising a biologically active agent that is capable of generating a protective immune response in an animal and a water soluble alkylated chitosan selected from the group consisting of trimethyl chitosan with a degree of quaternization that is at least 20% and an immunostimulant amount of N-carboxymethyl chitosan or a salt thereof.

Claims 2-4. (Cancelled)

5. (Previously presented) The pharmaceutical composition of claim 1 further comprising a cationic polypeptide, cationic polyamino acid, a quaternary ammonium compound or a mixture thereof.

6. (Previously presented) The pharmaceutical composition of claim 1 further comprising a first material capable of forming particles, wherein the pharmaceutical composition is in the form of particles.

Claims 7-10. (Cancelled)

11. (Previously presented) The composition of claim 6 wherein the particles comprise microspheres, microparticles or liposomes.

12. (Previously presented) The composition of claim 11 wherein the particles are microparticles.

13. (Previously presented) The composition of claim 6 wherein the first material capable of forming particles is a polymeric material which has a molecular weight of 100kDa or more.

14. (Previously presented) The composition of claim 6 wherein the first material capable of forming particles comprises poly-(L-lactide).

15. (Previously presented) The composition of claim 6 wherein the ratio of the first material capable of forming particles to the polycationic carbohydrate is from 99:1 to 9:1 w/w.

16. (Previously presented) The composition of claim 1 wherein the biologically active agent is capable of generating a protective immune response against tetanus, anthrax, diphtheria, or *Yersinia pestis*.

17. (Previously presented) The composition of claim 37 wherein the biologically active agent comprises a combination of the V antigen of *Y. pestis* or an immunologically active fragment thereof, and the F1 antigen of *Y. pestis* or an immunologically active fragment thereof.

18-19. (Cancelled).

20. (Previously presented) The composition of claim 6 which further comprises a chemical compound selected from the group consisting of:

- (A) a polyamino acid,
- (B) a vitamin or vitamin derivative,
- (C) cationic pluronics,
- (D) a clathrate,

- (E) a complexing agent,
- (F) cetrimides,
- (G) an S-layer protein, or
- (H) methyl-glucamine.

21. (Previously presented) The composition of claim 1 further comprising a cationic pluronic.

22. (Currently amended) The composition of claim 20 which comprises particles of the cationic pluronic which are surface modified with ~~the a~~ polycationic carbohydrate.

Claims 23-36.(Cancelled)

37. (Previously presented) The composition of claim 6, wherein the biologically active agent is able to produce an immune response against tetanus, diphtheria, anthrax, or *Yersinia pestis* in an animal to which it is administered.

Claims 38-43.(Cancelled)